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Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020003547  
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TITLE: System and method for transcoding information for an audio or limited display user interface

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

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US-CL-CURRENT: 345/727; 345/744

CLAIMS:

What is claimed is:

1. A method for transcoding information provided in a first markup language, the method comprising: selecting a portion of the information; determining a complexity of the selected portion; preparing, if the complexity of the selected portion exceeds a limit, a hypertext link and a subset of the information, the hypertext link for accessing the subset of the information; providing at least one of the selected portion, the hypertext link, and the subset; and providing an annotation associated therewith.
2. The method of claim 1 wherein the step of determining the complexity comprises calculating a statistic of the portion, the statistic in accordance with at least one of number of bytes, number of words, number of tables, number of hypertext links, and number of words in hypertext links; and determining the complexity in accordance with whether the statistic exceeds a limit.
3. The method of claim 1 wherein: the method further comprises repeating the steps of selecting, determining, and preparing for a plurality of portions of the information; and the prepared hypertext links are provided in a list.
4. The method of claim 3 wherein: the step of determining further comprises determining an importance of the selected portion; and the hypertext links are provided in the list in accordance with the respective importance of each selected portion.
5. The method of claim 3 wherein the step of repeating is performed for a portion of the information that is accessible via a particular prepared hypertext link after user navigation of the particular hypertext link via the list.
6. A server for voice browsing and transcoding, the server comprising indicia of

the method of claim 1.

7. The method of claim 1 wherein the step of providing is performed via the Internet.

8. A method for developing guidance for a transcoding process, the method comprising: receiving information in accordance with a first markup language; presenting a plurality of portions of the received information; associating an annotation with a selected portion; and storing the association, the annotation, and the selected portion in accordance with a second markup language, the first markup language and the second markup language each having at least one pair of tags unique to the respective language.

9. The method of claim 8 wherein: the selected portion is enclosed in a first pair of tags; the annotation is enclosed in a second pair of tags; and the first pair of tags further enclose the second pair of tags.

10. The method of claim 8 wherein the first markup language complies with the Extended Markup Language specification; and the second markup language complies with the Extended Markup Language specification.

11. The method of claim 8, wherein: the method further comprises receiving a Uniform Resource Locator comprising indicia of a desired association between the annotation and the selected portion; and the step of associating is performed in accordance with the indicia.

12. The method of claim 8, wherein: the method further comprises receiving a Hyper-Text Transport Protocol POST command comprising indicia of a desired association between the annotation and the selected portion; and the step of associating is performed in accordance with the indicia.

13. A method for transcoding information provided in a first markup language and associated with a first Uniform Resource Locator, the method comprising: obtaining guidance in accordance with at least a portion of the first Uniform Resource Locator, the guidance comprising a first description and an annotation; preparing a second description of at least a first portion of the information; determining a correlation between the first description and the second description; providing, if the correlation exceeds a limit, at least a second portion of the information and the annotation.

14. The method of claim 13 wherein the second description comprises a key word.

15. The method of claim 13 wherein the second description comprises a string of characters and a character of the string corresponds to a tag of the first markup language.

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Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020007379  
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TITLE: System and method for transcoding information for an audio or limited display user interface

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INVENTOR-INFORMATION:

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Wang, Zhi	Los Angeles	CA	US	
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US-CL-CURRENT: 715/515; 715/513

CLAIMS:

What is claimed is:

1. A method for transcoding information provided in a first markup language, the method comprising: selecting a portion of the information; determining a complexity of the selected portion; preparing, if the complexity of the selected portion exceeds a limit, a hypertext link and a subset of the information, the hypertext link for accessing the subset of the information; providing at least one of the selected portion, the hypertext link, and the subset; and providing an annotation associated therewith.
2. The method of claim 1 wherein the step of determining the complexity comprises: calculating a statistic of the portion, the statistic in accordance with at least one of number of bytes, number of words, number of tables, number of hypertext links, and number of words in hypertext links; and determining the complexity in accordance with whether the statistic exceeds a limit.
3. The method of claim 1 wherein: the method further comprises repeating the steps of selecting, determining, and preparing for a plurality of portions of the information; and the prepared hypertext links are provided in a list.
4. The method of claim 3 wherein: the step of determining further comprises determining an importance of the selected portion; and the hypertext links are provided in the list in accordance with the respective importance of each selected portion.
5. The method of claim 3 wherein the step of repeating is performed for a portion of the information that is accessible via a particular prepared hypertext link after user navigation of the particular hypertext link via the list.
6. A server for voice browsing and transcoding, the server comprising indicia of

the method of claim 1.

7. The method of claim 1 wherein the step of providing is performed via the Internet.

8. A method for developing guidance for a transcoding process, the method comprising: receiving information in accordance with a first markup language; presenting a plurality of portions of the received information; associating an annotation with a selected portion; and storing the association, the annotation, and the selected portion in accordance with a second markup language, the first markup language and the second markup language each having at least one pair of tags unique to the respective language.

9. The method of claim 8 wherein: the selected portion is enclosed in a first pair of tags; the annotation is enclosed in a second pair of tags; and the first pair of tags further enclose the second pair of tags.

10. The method of claim 8 wherein the first markup language complies with the Extended Markup Language specification; and the second markup language complies with the Extended Markup Language specification.

11. The method of claim 8 wherein: the method further comprises receiving a Uniform Resource Locator comprising indicia of a desired association between the annotation and the selected portion; and the step of associating is performed in accordance with the indicia.

12. The method of claim 8, wherein: the method further comprises receiving a Hyper-Text Transport Protocol POST command comprising indicia of a desired association between the annotation and the selected portion; and the step of associating is performed in accordance with the indicia.

13. A method for transcoding information provided in a first markup language and associated with a first Uniform Resource Locator, the method comprising: obtaining guidance in accordance with at least a portion of the first Uniform Resource Locator, the guidance comprising a first description and an annotation; preparing a second description of at least a first portion of the information; determining a correlation between the first description and the second description; providing, if the correlation exceeds a limit, at least a second portion of the information and the annotation.

14. The method of claim 13 wherein the second description comprises a key word.

15. The method of claim 13 wherein the second description comprises a string of characters and a character of the string corresponds to a tag of the first markup language.

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